

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¹/₄ NW¹/₄ NE¹/₄ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft downstream from bridge, 1.0 mi upstream from Gilbert Creek, 6.1 mi downstream from State Line Reservoir, and 9.0 mi south of Robertson.

DRAINAGE AREA.--53.0 mi².

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as East Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 979: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,470 ft above sea level, from topographic map. Prior to July 12, 1957, at datum 3.96 ft higher.

REMARKS.--Estimated daily discharges: May 2, 4-7. Records fair except those for estimated daily discharges, which are poor. Flow completely regulated by State Line Reservoir, 6.1 mi upstream, total capacity, 14,000 acre-ft, dead storage is about 2,000 acre-ft, since May 1979. Results of discharge measurements, in cubic feet per second, made during the period when the station was not in operation are given below:

Oct. 1 . . . 34.1
Apr. 28 . . . 10.4

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the U.S. Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	14	97	108	77	62
2	---	---	---	---	---	---	---	13	99	125	76	62
3	---	---	---	---	---	---	---	13	105	125	76	61
4	---	---	---	---	---	---	---	15	119	125	77	62
5	---	---	---	---	---	---	---	15	117	124	68	61
6	---	---	---	---	---	---	---	15	119	123	64	61
7	---	---	---	---	---	---	---	16	123	123	63	61
8	---	---	---	---	---	---	---	16	128	141	63	61
9	---	---	---	---	---	---	---	16	134	149	62	64
10	---	---	---	---	---	---	---	22	129	149	63	67
11	---	---	---	---	---	---	---	23	155	148	63	67
12	---	---	---	---	---	---	---	24	269	146	56	66
13	---	---	---	---	---	---	---	26	262	144	50	66
14	---	---	---	---	---	---	---	59	232	144	50	66
15	---	---	---	---	---	---	---	60	198	131	49	66
16	---	---	---	---	---	---	---	63	173	124	49	60
17	---	---	---	---	---	---	---	71	167	123	50	55
18	---	---	---	---	---	---	---	82	186	123	50	56
19	---	---	---	---	---	---	---	83	245	123	60	57
20	---	---	---	---	---	---	---	83	277	123	71	56
21	---	---	---	---	---	---	---	84	253	121	72	56
22	---	---	---	---	---	---	---	85	224	96	70	56
23	---	---	---	---	---	---	---	92	194	87	70	50
24	---	---	---	---	---	---	---	99	160	87	70	44
25	---	---	---	---	---	---	---	98	139	87	70	44
26	---	---	---	---	---	---	---	97	131	87	67	44
27	---	---	---	---	---	---	---	97	129	87	62	44
28	---	---	---	---	---	---	---	97	104	87	61	44
29	---	---	---	---	---	---	---	98	83	80	62	44
30	---	---	---	---	---	---	---	98	83	77	62	44
31	---	---	---	---	---	---	---	97	---	77	62	---
TOTAL	---	---	---	---	---	---	---	1771	4834	3594	1965	1707
MEAN	---	---	---	---	---	---	---	57.1	161	116	63.4	56.9
MAX	---	---	---	---	---	---	---	99	277	149	77	67
MIN	---	---	---	---	---	---	---	13	83	77	49	44
AC-FT	---	---	---	---	---	---	---	3510	9590	7130	3900	3390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1971, BY WATER YEAR (WY)

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	15.9	10.9	8.10	7.15	7.19	8.00	20.5	126	216	88.9	33.7	19.6																					
MAX	34.8	19.0	16.9	16.4	13.4	15.0	90.0	201	430	269	120	59.8																					
(WY)	1962	1952	1966	1966	1966	1943	1946	1952	1965	1965	1965	1965																					
MIN	5.21	5.50	2.11	1.34	1.55	2.14	5.01	31.6	59.3	15.9	6.64	6.68																					
(WY)	1957	1957	1963	1963	1963	1963	1970	1953	1954	1940	1940	1956																					

SUMMARY STATISTICS

	FOR 1997 WATER YEAR*	WATER YEARS 1939 - 1971
ANNUAL MEAN	--	47.1
HIGHEST ANNUAL MEAN	--	88.9
LOWEST ANNUAL MEAN	--	25.4
HIGHEST DAILY MEAN	277 Jun 20	1030 Jun 10 1965
LOWEST DAILY MEAN	13 May 2, 3	1.0 Dec 17 1962
ANNUAL SEVEN-DAY MINIMUM	--	1.0 Dec 17 1962
INSTANTANEOUS PEAK FLOW	297 Jun 12	1450 Jun 10 1965#
INSTANTANEOUS PEAK STAGE	5.13 Jun 12	6.75 Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	--	34160
10 PERCENT EXCEEDS	--	140
50 PERCENT EXCEEDS	--	13
90 PERCENT EXCEEDS	--	5.6

* During period of operation.

For period of record through 1997.